

## Product datasheet for **SC111130**

### SCO2 (NM\_005138) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCO2 (NM_005138) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCO2
Synonyms:	CEMCOX1; ECGF1; Gliostatin; MC4DN2; MYP6; PD-ECGF; SCO1L; TdRPase; TP; TYMP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111130 sequence for NM_005138 edited (data generated by NextGen Sequencing)

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ATGCTGCTGCTGACTCGGAGCCCCACAGCTTGGCACAGGCTCTCTCAGCTCAAGCCTCCG
GTCCTCCCTGGGACCCTGGGAGGCCAGGCCCTGCATCTGAGGTCCTGGCTTTTGTCAAGG
CAGGGCCCTGCAGAGACAGGTGGGCAGGGCCAGCCCCAGGGCCCTGGGCTTCGAACCCGG
CTGCTGATCACAGGCCTGTTCCGGGCTGGACTCGGTGGGGCTGGCTGGCCCTGAGGGCT
GAGAAGGAGAGGCTGCAGCAGCAAAAGCGAACAGAAAGCCCTGCGCCAGGCAGCTGTGGGC
CAGGGCGACTTCCACCTGCTGGATCACAGAGGCCGGGCTCGTGCAAGGCTGACTCCGG
GGCCAGTGGGTGCTGATGTACTTTGGCTTCACTCACTGCCCTGACATCTGCCAGACGAG
CTGGAGAAGCTGGTGCAGGTGGTGCAGCAGCTGGAAGCAGAGCCTGGTTTGCCTCCAGTG
CAGCCTGTCTTCACTGTGGACCCCGAGCGGGACGACGTTGAAGCCATGGCCCGCTAC
GTCCAGGACTTCCACCAAGACTGTTGGGTCTGACCGGCTCCACCAACAGGTTGCCAG
GCTAGTCACAGTTACCGGTGTACTACAATGCCGGCCCCAAGGATGAGGACCAGGACTAC
ATCGTGGACCACTCCATTGCCATCTACCTGCTCAACCCTGACGGCCTCTTACGGATTAC
TACGGCCGGAGCAGATCGGCTGAGCAGATCTCAGACAGTGTGCGGGCCACATGGCGGCT
TTCCGCAGTGTCTGTCTTGA

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Clone variation with respect to NM\_005138.2  
59 g=>c;633 a=>c



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_005138 unedited            CAGAATTTTGTAAATACGACTCACTATAGGGCGGCCCGCGATTCCGGCACGAGGCAAATAGA            TAACGTGGTTAGTTCAGGCAAGGCATGCACTTGGAAATGCTTCCGTCAGCAAGAGGTTCA            CCTTGCTGAGGTGCAGGTGCAGGTGCAGGGCAGGGTGCCGTGACAGGCTGGTGATCCCAG            GTAGAGGACAGGAGTGACAGGTGTGGTTGCCAGGTGTGGATGTTTGGTGGAGGTGGAGT            TCTGAGCTCAGGTGAGCAGCTGCAAATGCCTGTTAAGCCTGAACGTGGGCTGGGTTACTTC            AGATGGGTGGCTGGTCTCAAGTCGCAGGGGCAGCCAGGCACTGTCTGGGCCTCCCTT            CTGGCTCCTGACGCTGTGCTTGTTCAGGAGCATCAGATCCATGCTGCTGCTGACTCG            GAGCCCCACAGCTTGGCACAGGCTCTCTCAGCTCAAGCCTCCGGTCTCCCTGGGACCCT            GGGAGGCCAGGCCCTGCATCTGAGGTCCTGGCTTTTGTCAAGGCAGGGCCCTGCAGAGAC            AGGTGGGCAGGGCCAGCCCCAGGGCCCTGGGCTTCAACCCGGCTGTGATCACAGGCCCT            GTTCGGGGCTGGACTCGGTGGGGCTGGCTGGCCCTGAGGGCTGAGAAGGAGAGGCTGCA            GCAGAAAAGCGAACAGAAGCCCTGCGCCAGGCAGCTGTGGCCAGGGCGACTTCCACCT            GCTGGNATCACAGAGCCGGGCTCGCTGCAAGGCTGACTTCCGGGGCCAGTGGGTGCTGAT            GTACTTTGGCTNACTCACTGCCCTGACATCTGCCCAAACGAGCTGNANAANNCTGTGCAN            GTGGTCCCGCANCTGAANCANAGCCTGTNTNGCCTCCAT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005138 unedited            CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAAACGCAGCCCGTTAAT            GATGGGGCCAGACTGCAGTGGCTCAAGACAGGACTGCGGAAAGCCGCATGTGCCGC            CGCACACTGTCTGAGATCTGCTCAGCCGATCTGCTCCGGCCGTAGTAATCCGTGAAGAGG            CCGTCAGGGTTGAGCAGGTAGATGGCAATGGAGTGGTCCACGATGTAGTCTGGTCTCA            TCCTTGGGGCCGGCATTGTAGTACACGGGTAAGTGTGACTAGCCTGGGCAACCTGTTTG            GTGGAGCCGGTCAGACCCAACAGTCTTGGGTGGAAGTCTGGACGTACCGGGCCATGGCT            TCAACGTCGTCCCGCTCGGGGTCCACAGTGATGAACACAGGCTGCACTTGGAGCAAACCA            GGCTCTGCTTCCAGCTGCCGCACCACCTGCACCACTTTTTCCACCTTGCTCTGGCCATAT            GTTAGGGCACTGATGCGACCCTAAGTTCATTCTTCTCCCTGATTTCCGGAAATTACCT            CCTTTTACCCCGATCCTTTGTATCTAATCCCGCAACCAATAATTCCTCTCTACGCC            CCGGATATCGCCCATCCCTTTTCTTGTCCACATCTTCTCCTCCCCGCTCTTTTCC            CCCTCCATTTCCCTCTCCCGTATTTCTGTTCCCCCCCCGTTTCGCTCCGGCCTTCTCTAG            TATACACCCCTTCTCTTTCACCTCTCTCCGCCCTCTCGCCCGTCCCCAACTCTCCCT            TACCCACCCATCCCTCCCTCCTTCCATTCCACCCCCCTCCTCCCCCTTTCCGTCAT            CTCCCTCCTTCTCTCCTCCCCCTTTTCTTCCCCCGCCACCCCTATTCCCGACTTCC            CTCCGTCNTATCTCCATCCCTTCTCTCCCATGTTATTATTTCTCCGACTCCCCTATCTC            ATTCTCCCTGACCTCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005138
<b>Insert Size:</b>	1310 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005138.1</a> , <a href="#">NP_005129.1</a>
<b>RefSeq Size:</b>	931 bp
<b>RefSeq ORF:</b>	801 bp
<b>Locus ID:</b>	9997
<b>UniProt ID:</b>	<a href="#">O43819</a>
<b>Cytogenetics:</b>	22q13.33
<b>Domains:</b>	SCO1-SenC
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>Cytochrome c oxidase (COX) catalyzes the transfer of electrons from cytochrome c to molecular oxygen, which helps to maintain the proton gradient across the inner mitochondrial membrane that is necessary for aerobic ATP production. Human COX is a multimeric protein complex that requires several assembly factors; this gene encodes one of the COX assembly factors. The encoded protein is a metallochaperone that is involved in the biogenesis of cytochrome c oxidase subunit II. Mutations in this gene are associated with fatal infantile encephalomyopathy and myopia 6. [provided by RefSeq, Oct 2014]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript. Variants 1, 2, 3 and 4 encode the same protein.</p>